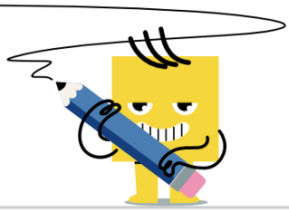
Name



Estimate irrational values

1 Simplify the radical

$$\sqrt{2 \cdot 2}$$

A $\sqrt{2}$	B $2\sqrt{2}$	C 5
D 2	E 1	

2 Simplify the radical

$$\sqrt{9}$$

A $\sqrt{4}$	B 1
C 3	

3 Approximate the value of 'a' in this equation

$$a^2 + 144 = 256$$

A a = 10.6	B a = 14.8
C a = 8.5	D a = 9.6
E a = 12.6	F a = 13.8

4 Approximate the value of 'b' in this equation

$$6^2 + b^2 = 12^2$$

A b = 11.7	B b = 9.4
C b = 8.4	D b = 13.5
E b = 10.4	F b = 18

5 Approximate the value of 'c' in this equation

$$a^2 + b^2 = c^2$$
$$a = 13$$
$$b = 12$$
$$c = ?$$

A c = 17.7	B c = 13.5
C c = 156	D c = 21.1
E c = 5	F c = 25

6 Find the best approximation of the given square root

$$\sqrt{20}$$

A 6.6	B 2.2	C 5.9
D 2.9	E 3.7	F 4.4

7 Approximate the value of 'c' in this equation

$$4 + 4 = c^2$$

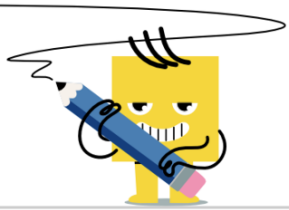
A c = 4.5	B c = 2.8
C c = 6.2	D c = 1.4
E c = 3.7	F c = 1

8 Approximate the value of 'b' in this equation

$$5^2 + b^2 = 12^2$$

A b = 17	B b = 11.9
C b = 10.9	D b = 9.9
E b = 5.9	F b = 11.8

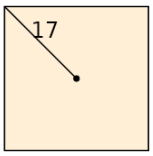
Name



Estimate irrational values

9

Find the length of the square sides, given a diagonal to the center of length 17



Side = ?

A 24.04	B 31.25

10

Approximate the value of 'a' in this equation

$$a^2 + 81 = 196$$

A a = 5.7	B a = 126
C a = 8.7	D a = 23
E a = 13.7	F a = 10.7

11

Approximate the value of 'b' in this equation

$$7^2 + b^2 = 10^2$$

A b = 6.4	B b = 4.3
C b = 6.1	D b = 5.7
E b = 7.1	F b = 9.6

12

Approximate the value of 'c' in this equation

$$a^2 + b^2 = c^2$$
$$a = 9$$
$$b = 10$$
$$c = ?$$

A c = 13.5	B c = 16.8
C c = 14.3	D c = 11.8
E c = 12.6	F c = 16